





INTERNATIONAL PRELIMINARY EXAMINATION REPORT

APPLICANT ON TREATY PCT INTERNATIONAL PRELIMINARY EXAMINATION REPORT (PCT Article 36 and Rule 70) Applicant's or agent's file reference CO2030WO International application No. PCT/EP2003/009199 20 August 2003 (20.08.2003) International patent Classification (IPC) or national classification and IPC CO8G 61/00, C09K 11/06 Applicant COVION ORGANIC SEMICONDUCTORS GMBH 1. This international preliminary examination report has been prepared by this International Preliminary Examining Authorian and is transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of4 — sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of the Administrative Instructions under the PCT). These annexes consist of the control of1 — sheets. 1			CT	· —
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PCT/EP2003/009199

I. B	I. Basis of the report							
1. With regard to the elements of the international application:*								
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D	$\bar{\mathbb{Z}}$	the desc	eription:					
		pages	1-22	, as originally filed				
		pages		, filed with the demand				
		pages	, filed with the letter of					
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K		pages		, as originally filed				
		pages		ith any statement under Article 19				
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		pages	7, filed with the letter of	04 August 2004 (04.08.2004)				
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		pages	·					
		pages		, filed with the demand				
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1 1	the ir	nternation e element the lar the lar	to the language, all the elements marked above were available or furnished to this mal application was filed, unless otherwise indicated under this item. Its were available or furnished to this Authority in the following language and a translation furnished for the purposes of international search (under Rule anguage of publication of the international application (under Rule 48.3(b)). Inguage of the translation furnished for the purposes of international preliminary expressions.	which is: e 23.1(b)).				
3.	With	minary	I to any nucleotide and/or amino acid sequence disclosed in the internation examination was carried out on the basis of the sequence listing:	onal application, the international				
1	닏		ined in the international application in written form.					
Ì	\mathbb{H}		ogether with the international application in computer readable form.					
	H		thed subsequently to this Authority in written form.					
1	\vdash		hed subsequently to this Authority in computer readable form.					
		The intern	statement that the subsequently furnished written sequence listing does not national application as filed has been furnished.	go beyond the disclosure in the				
	Ш		statement that the information recorded in computer readable form is identical t furnished.	to the written sequence listing has				
4.		The a	amendments have resulted in the cancellation of:					
			the description, pages					
		\sqcap	the claims, Nos.	•				
1		\sqcap	the drawings, sheets/fig					
5.		This r	report has been established as if (some of) the amendments had not been made, sind the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	ace they have been considered to go				
*	in t	lacemen his repo 70.17).	at sheets which have been furnished to the receiving Office in response to an invitat ort as "originally filed" and are not annexed to this report since they do not	tion under Article 14 are referred to t contain amendments (Rule 70.16				
**		-	ment sheet containing such amendments must be referred to under item $\it l$ and annex	xed to this report.				

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V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability citations and explanations supporting such statement
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1.	Statement							
	Novelty (N)	Claims	1-18	YES				
		Claims		NO				
	Inventive step (IS)	Claims	1-18	YES				
		Claims		NO				
	Industrial applicability (IA)	Claims	1-18	YES				
		Claims		NO				

2. Citations and explanations

1. PCT Article 33(2):

The present application claims a method for the C-C coupling of aromatic and heteroaromatic halogen compounds (claim 1), the production of the catalyst system (claim 8) and the polymers produced with the catalyst (claim 18).

D1 does not disclose the use of two different ligands in the method for C-C coupling. D2 likewise uses only one ligand - triphenylphosphine. D3 uses the complex in stoichiometric amounts and without reducing agents.

Consequently, the subject matter of claims 1-18 is novel.

2. PCT Article 33(3):

D1 is considered to be the closest prior art, because that method for C-C coupling includes all the technical features except one. The difference between the present application and D1 is the use of a different ligand system. The objective technical problem is therefore that of providing alternative methods for the C-C coupling of aromatic and heteroaromatic halogen compounds. Since the cited

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literature contains no hints that the special ligand system allows the coupling in high yields and the products obtained have a very low metal content, the subject matter of claims 1 -18 involves an inventive step.